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**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. #217 (3725)**First Inventor** LEE, et al.**Title** Rare Earth Ba-Cu-O Superconductors and Methods..**Express Mail Label No.** EV332164848 US**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)

2. Applicant claims small entity status.
See 37 CFR 1.27.

3. Specification [Total Pages 28]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (*if filed*)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure

4. Drawing(s) (35 U.S.C. 113) [Total Sheets 5]

5. Oath or Declaration [Total Pages 5]

a. Newly executed (original or copy)
Copy from a prior application (37 CFR 1.63 (d))
b. (for continuation/divisional with Box 18 completed)

i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

6. Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission (*if applicable, all necessary*)
 a. Computer Readable Form (CRF)
 b. Specification Sequence Listing on:
 i. CD-ROM or CD-R (2 copies); or
 ii. paper
 c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet & document(s))

10. 37 CFR 3.73(b) Statement Power of Attorney
(when there is an assignee)

11. English Translation Document (*if applicable*)

12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations

13. Preliminary Amendment

14. Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)

15. Certified Copy of Priority Document(s)
(if foreign priority is claimed)

16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.

17. Other: Pet to Make Special

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation Divisional Continuation-in-part (CIP) of prior application No.: _____ / _____

Prior application information: Examiner: _____ Group Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

<input type="checkbox"/> Customer Number or Bar Code Label	(Insert Customer No. or Attach bar code label here)			<input type="checkbox"/> or <input checked="" type="checkbox"/> Correspondence address below
Name	Tracey R. Loughlin			
Address	DOUGHERTY, CLEMENTS & HOFER			
	1901 Roxborough Road, Suite 300			
City	Charlotte	State	NC	Zip Code
Country	USA	Telephone	704-366-6642	Fax
Name (Print/Type)	Tracey R. Loughlin	Registration No. (Attorney/Agent)	51,969	
Signature				Date 07/10/2003

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

07/10/03

16367 U.S.P.T.O.

PTO/SB/17 (01-03)

Approved for use through 04/30/2003. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 1360.00)

Compl te If Known

Application Number	Not Assigned
Filing Date	Filed Herewith
First Named Inventor	LEE, et al.
Examiner Name	Not Assigned
Art Unit	Not Assigned
Attorney Docket No.	SP #217 (3725)

METHOD OF PAYMENT (check all that apply)

Check Credit card Money Order Other None

Deposit Account:

Deposit Account Number
04-1448

Doughtery & Clements, LLP

The Commissioner is authorized to: (check all that apply)

Charge fee(s) indicated below Credit any overpayments

Charge any additional fee(s) during the pendency of this application

Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 750	2001 375	Utility filing fee	750.00
1002 330	2002 165	Design filing fee	
1003 520	2003 260	Plant filing fee	
1004 750	2004 375	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1) (\$ 750.00)			

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
			47	-20** = 27 X 18. = 486.	
			4	- 3** = 1 X 84. = 84.	

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 84	2201 42	Independent claims in excess of 3
1203 280	2203 140	Multiple dependent claim, if not paid
1204 84	2204 42	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2) (\$ 570.00)		

**or number previously paid, if greater; For Reissues, see above

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee (\$)	Fee Code (\$)	Fee (\$)	Fee Description	Fee Paid
1051 130	2051 65	2051 65	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	2052 25	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	2251 55	2251 55	Extension for reply within first month	
1252 410	2252 205	2252 205	2252 205	Extension for reply within second month	
1253 930	2253 465	2253 465	2253 465	Extension for reply within third month	
1254 1,450	2254 725	2254 725	2254 725	Extension for reply within fourth month	
1255 1,970	2255 985	2255 985	2255 985	Extension for reply within fifth month	
1401 320	2401 160	2401 160	2401 160	Notice of Appeal	
1402 320	2402 160	2402 160	2402 160	Filing a brief in support of an appeal	
1403 280	2403 140	2403 140	2403 140	Request for oral hearing	
1451 1,510	1451 1,510	1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	2452 55	2452 55	Petition to revive - unavoidable	
1453 1,300	2453 650	2453 650	2453 650	Petition to revive - unintentional	
1501 1,300	2501 650	2501 650	2501 650	Utility issue fee (or reissue)	
1502 470	2502 235	2502 235	2502 235	Design issue fee	
1503 630	2503 315	2503 315	2503 315	Plant issue fee	
1460 130	1460 130	1460 130	1460 130	Petitions to the Commissioner	0.00
1807 50	1807 50	1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	8021 40	8021 40	Recording each patent assignment per property (times number of properties)	40.00
1809 750	2809 375	2809 375	2809 375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 750	2810 375	2810 375	2810 375	For each additional invention to be examined (37 CFR 1.129(b))	
1801 750	2801 375	2801 375	2801 375	Request for Continued Examination (RCE)	
1802 900	1802 900	1802 900	1802 900	Request for expedited examination of a design application	
Other fee (specify) _____					
*Reduced by Basic Filing Fee Paid				SUBTOTAL (3) (\$ 40.00)	

(Complete if applicable)

Name (Print/Type)	Tracey R. Loughlin	Registration No. Attorney/Agent)	51,969	Telephone 704-366-6642
Signature	<i>Tracey R. Loughlin</i>		Date	07/10/2003

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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EXPRESS MAIL CERTIFICATE

"Express Mail" Label No.: EV 332164848 US

Date of Deposit: July 10, 2003

Type of Document(s):

- Petition to Make Special (2 pages)
- Utility Patent Application Transmittal (PTO/SB/05)(1 page)
- Fee Transmittal (PTO/SB/17) (1 page)
 Credit Card Payment Form (PTO-2308) (1 page)
- Specification and Claims (28 pages)
- Drawings (5 pages)
- Information Disclosure Statement (2 pages)
- Information Disclosure Form (PTO/SB/08A) (2 pages)
- Copy of Cited References (89 pages)
- Declaration and Power of Attorney (5 pages)
- Recordation Cover Sheet (PTO-1595) (1 page)
- Assignment (3 pages)
 Credit Card Payment Form (PTO-2308) (1 page)
- Post Card Receipt

Serial No.: Not Assigned

Inventors: Hee-Gyoun LEE, et al.

Title: ***RARE EARTH-Ba-Cu-O SUPERCONDUCTORS AND METHODS OF MAKING SAME***

File Reference: SP #217 (3725)

I hereby certify that the documents identified above are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: **Mail Stop: Patent Application, P. O. Box 1450, Alexandria, VA 22313-1450.**



Terri K. Lester